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| FORM PTO-1390<br>(REV. 10-2003)  |  | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE |  | ATTORNEY'S DOCKET NUMBER<br>22078-2TARGESON   |  |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b>  |  |   |  | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><div style="font-size: 24pt; font-weight: bold;">10/511383</div> |  |
| INTERNATIONAL APPLICATION NO.<br>PCT/US03/021712   |  | INTERNATIONAL FILING DATE<br>11 July 2003 (11.07.2003)  |  | PRIORITY DATE CLAIMED<br>11 July 2002 (11.07.2002)  |  |
| TITLE OF INVENTION<br>MICROBUBBLE COMPOSITIONS, AND METHODS FOR PREPARING AND USING SAME   |  |   |  |   |  |
| APPLICANT(S) FOR DO/EO/US<br>KLIBANOV, Alexander L.; LEY, Klaus F.; RYCHAK, Joshua J.  |  |   |  |   |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |   |  |   |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (unsigned)</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |  |   |  |   |  |
| <b>Items 11 to 20 below concern document(s) or information included:</b>   |  |   |  |   |  |
| <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet Under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information:               <ol style="list-style-type: none"> <li>a.) PCT Request</li> <li>b.) Resp to Invit to Correct Defects (re: title)</li> <li>c.) Search Report d.) Resp. to Sch. Rpt.</li> <li>e.) International Publication w/ Sch. Rpt.</li> <li>f.) Form IB/304 and IB/308</li> </ol> </li> </ol>   |  |   |  |   |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>Express Mail Label No.: EV527598776US Date of Deposit: 14 October 2004</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to MAIL STOP PCT, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.</p> <p><i>Clay Miske</i></p> <p>Signature of person mailing paper or fee</p> </div> </div>  |  |   |  |   |  |

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| <b>10/511383</b><br>U.S. APPLICATION NO. (if known, see 37 CFR 1.53) |  | INTERNATIONAL APPLICATION NO.<br><b>PCT/US03/021712</b> |  | ATTORNEY'S DOCKET NUMBER<br><b>22078-2TARGESON</b> |  |
|--|--|---|--|--|--|

|  |                     |                     |                  |                                  |           |
|--|---------------------|---------------------|------------------|----------------------------------|-----------|
| 21. <input checked="" type="checkbox"/> The following fees are submitted:<br><b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):</b><br>Neither international preliminary examination fee (37 CFR 1.482)<br>nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO<br>and International Search Report not prepared by the EPO or JPO ..... <b>\$1080.00</b><br><br>International preliminary examination fee (37 CFR 1.482) not paid to<br>USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$920.00</b><br><br>International preliminary examination fee (37 CFR 1.482) not paid to USPTO<br>but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$770.00</b><br><br>International preliminary examination fee (37 CFR 1.482) paid to USPTO<br>but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$730.00</b><br><br>International preliminary examination fee (37 CFR 1.482) paid to USPTO<br>and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100.00</b><br><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b> |                     |                     |                  | <b>CALCULATIONS PTO USE ONLY</b> |           |
|  |                     |                     |                  | \$ 770.00                        |           |
| Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30<br>months from the earliest claimed priority date (37 CFR 1.492(e)).   |                     |                     |                  | \$ 130.00                        |           |
| <b>CLAIMS</b>  | <b>NUMBER FILED</b> | <b>NUMBER EXTRA</b> | <b>RATE</b>      | \$                               |           |
| Total claims   | 35 - 20 =           | 15                  | x <b>\$18.00</b> | \$ 270.00                        |           |
| Independent claims   | 4 - 3 =             | 1                   | x <b>\$86.00</b> | \$ 86.00                         |           |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |                     |                     |                  | + \$290.00                       | \$        |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |                     |                     |                  | \$ 1256.00                       |           |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above<br>are reduced by 1/2.   |                     |                     |                  | \$                               |           |
| <b>SUBTOTAL =</b>  |                     |                     |                  | \$ 628.00                        |           |
| Processing fee of <b>\$130.00</b> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30<br>months from the earliest claimed priority date (37 CFR 1.492(f)).   |                     |                     |                  | \$                               |           |
| <b>TOTAL NATIONAL FEE =</b>  |                     |                     |                  | \$ 628.00                        |           |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be<br>accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +   |                     |                     |                  | \$                               |           |
| <b>TOTAL FEES ENCLOSED =</b>   |                     |                     |                  | \$                               |           |
|  |                     |                     |                  | <b>Amount to be refunded:</b>    | \$        |
|  |                     |                     |                  | <b>charged:</b>                  | \$ 628.00 |

a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. 23-3030 in the amount of \$ \_\_\_\_\_ to cover the above fees.  
 A duplicate copy of this sheet is enclosed.

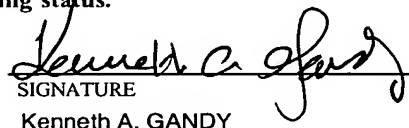
c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any  
 overpayment to Deposit Account No. 23-3030. A duplicate copy of this sheet is enclosed.

d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card  
 information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR  
 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:  
 Kenneth A. GANDY  
 WOODARD, EMHARDT, MORIARTY, MCNETT & HENRY LLP  
 Bank One Center/Tower, Suite 3700  
 111 Monument Circle  
 Indianapolis, Indiana 46204 US

  
 SIGNATURE  
 Kenneth A. GANDY  
 \_\_\_\_\_  
 NAME  
 33,386  
 \_\_\_\_\_  
 REGISTRATION NUMBER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|   |   |
|---|---|
| In re PCT application of<br>TARGESON, LLC   | ) Authorized Officer:<br>) Darlene Proctor<br>)       |
| International Application<br>Number PCT/US03/21712  | ) Mailing Date<br>) 15 September 2003<br>)            |
| International Filing Date<br>11 July 2003   | ) Agent's File<br>) Reference:<br>) 22078.3TARGE<br>) |
| Title of Invention<br>MICROBUBBLE COMPOSITIONS, AND)<br>METHODS FOR PREPARING AND )<br>USING SAME ) |   |

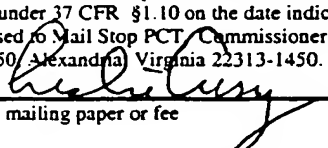
**RESPONSE TO INVITATION TO CORRECT DEFECTS**

Mail Stop PCT  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

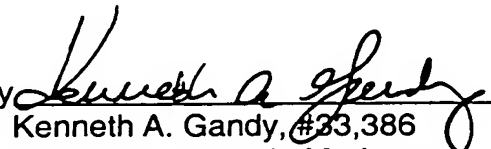
Attn: RO/US

Dear Sir/Madam:

In response to the Invitation to Correct Defects in the International Application mailed 26 August 2003, Applicant submits four duly executed Appointments of Agent. Please also correct the title to read --  
MICROBUBBLE COMPOSITIONS, AND METHODS FOR PREPARING AND  
USING SAME -- as indicated on the Request. We believe that this application conforms to the requirements of the PCT.

|  |
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| <p>"Express Mail" label number <u>EV33408506545</u><br/>Date of Deposit <u>16 September 2003</u><br/>I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.<br/><br/>Signature of person mailing paper or fee</p> |
|--|

Respectfully submitted

By   
Kenneth A. Gandy, #33,386  
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Indianapolis, Indiana 46204 US  
(317) 634-3456

238650  
Enclosures: 4 Appts. of Agent

DT05 Rec'd PCT/PTO 14 OCT 2004

In re PCT application of  
TARGESON, LLC

) Authorized Officer:  
) Marianne DiBrino

International Application  
Number PCT/US03/21712

)  
) Mailing Date  
) 03 February 2004

International Filing Date  
11 July 2003

)  
) Agent's File

Title of Invention  
MICROBUBBLE COMPOSITIONS, AND)  
METHODS FOR PREPARING AND )  
USING SAME )

) Reference:  
) 22078.3TARGE

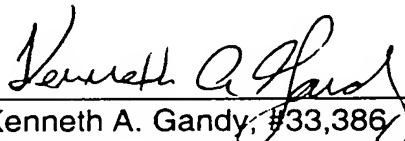
**RESPONSE TO THE INTERNATIONAL SEARCH REPORT**

The International Bureau  
WIPO  
34, chemin des Colombettes  
1211 Geneva 20  
Switzerland

Dear Sir/Madam:

In response to the International Search Report mailed 09 December 2003, regarding the above-referenced PCT Patent Application, Applicant does not wish to make any amendments at this time.

Respectfully submitted

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